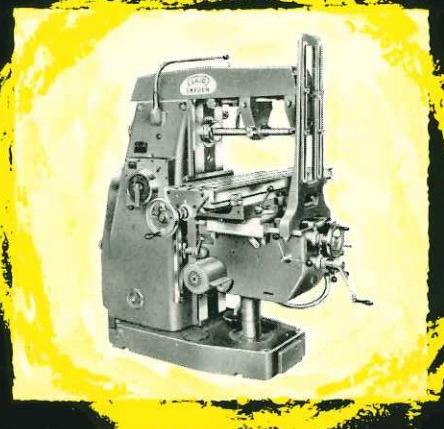
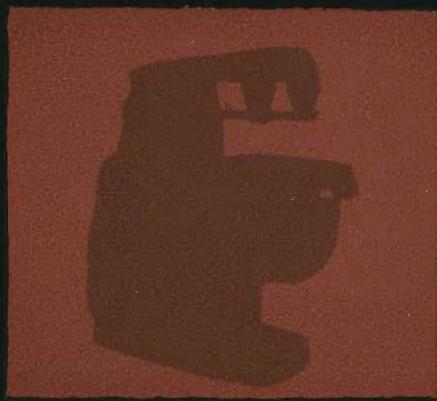
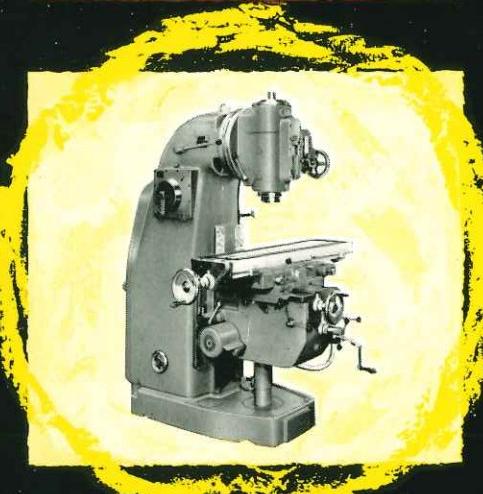
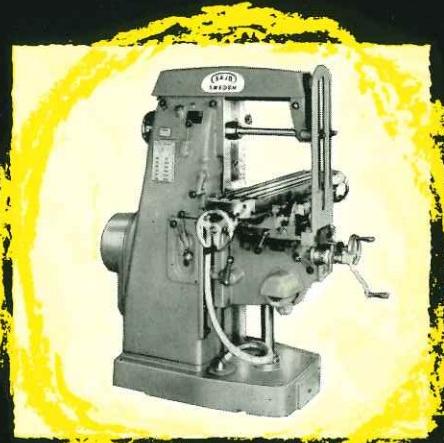
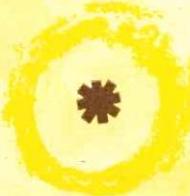


SAJO MILLING MACHINES



5166

FIRST CHOICE WHERE PRECISION IS A MUST

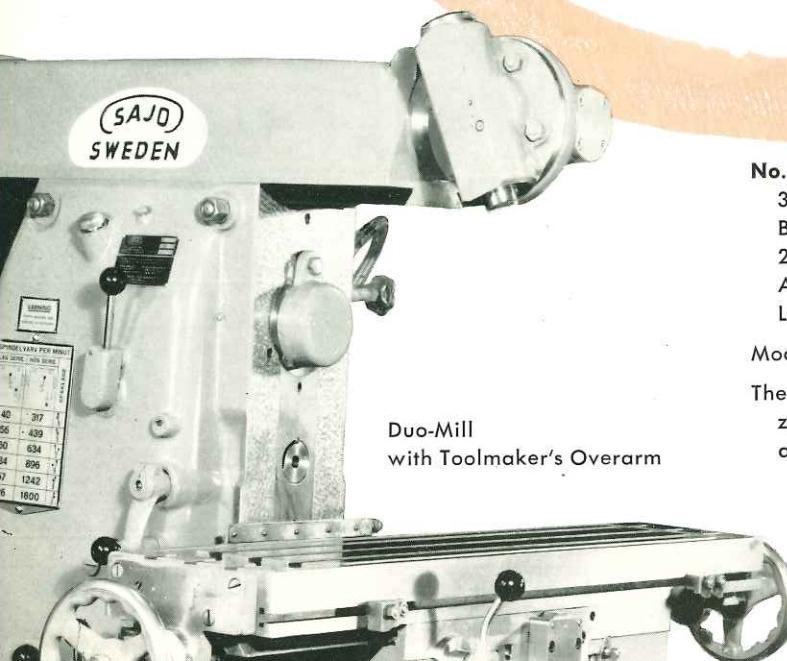


MODEL 52 SAJO MILLERS - Medium Duty

Plain
Universal
Duo-Mill



MODEL UF-52



No. 2 Medium Duty Horizontal Milling Machine, Model 52 features:

- 3-directional power feed — 27½" longitudinal movement
- Backlash adjustment for climb milling
- 2-motor drive for spindle and table
- Anti-friction bearings throughout
- Large diameter gear near spindle nose gives flywheel effect

Model 52 available as Plain, Universal or Duo-Mill

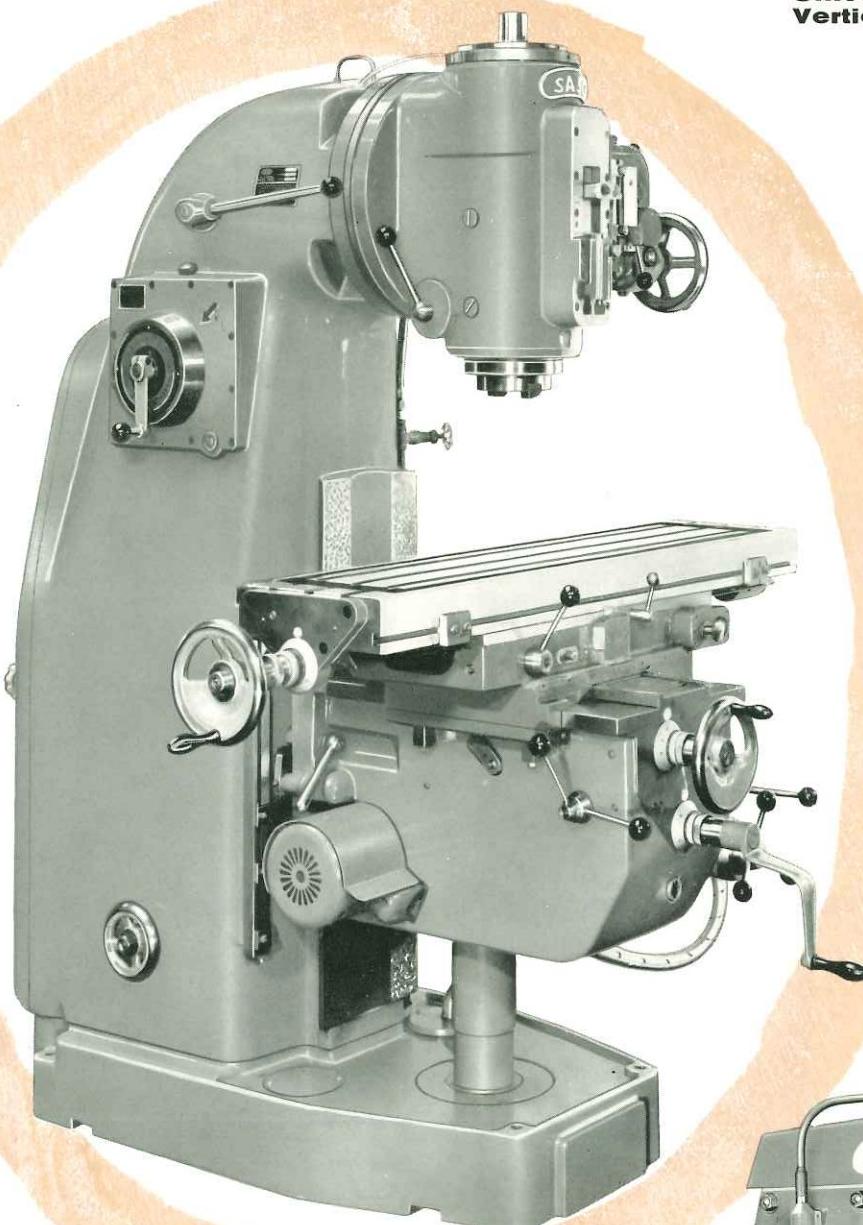
The Model 52 Duo-Mill is quickly converted from vertical to horizontal milling — just swivel the universal head out of the way and mount the arbor support on the overarm.

Duo-Mill
with Toolmaker's Overarm

Move up

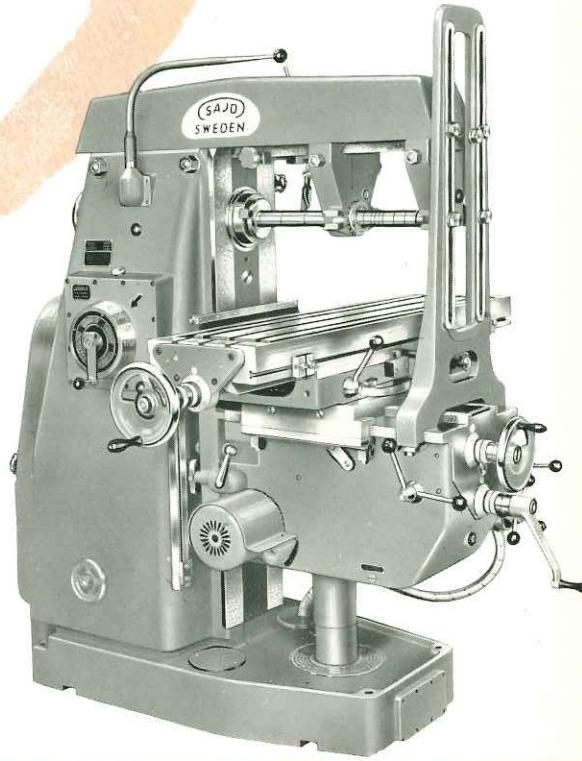
MODEL 54 SAJO MILLERS - Standard Duty

Plain
Universal
Vertical



MODEL VF-54-P

MODEL UF-54



Model 54 is a No. 2 Standard Duty Milling Machine

with extra power, extra capacity to suit the most exacting requirements. It features:

3-directional power feeds and power rapid traverse
33½" longitudinal movement, dial selection of speeds and feeds,
single START—STOP—BRAKE lever, backlash adjustment for climb milling, anti-friction bearings throughout

Vertical Miller provides swivel arrangement of spindle head,
power feed to spindle and turret type depth stop (optional)

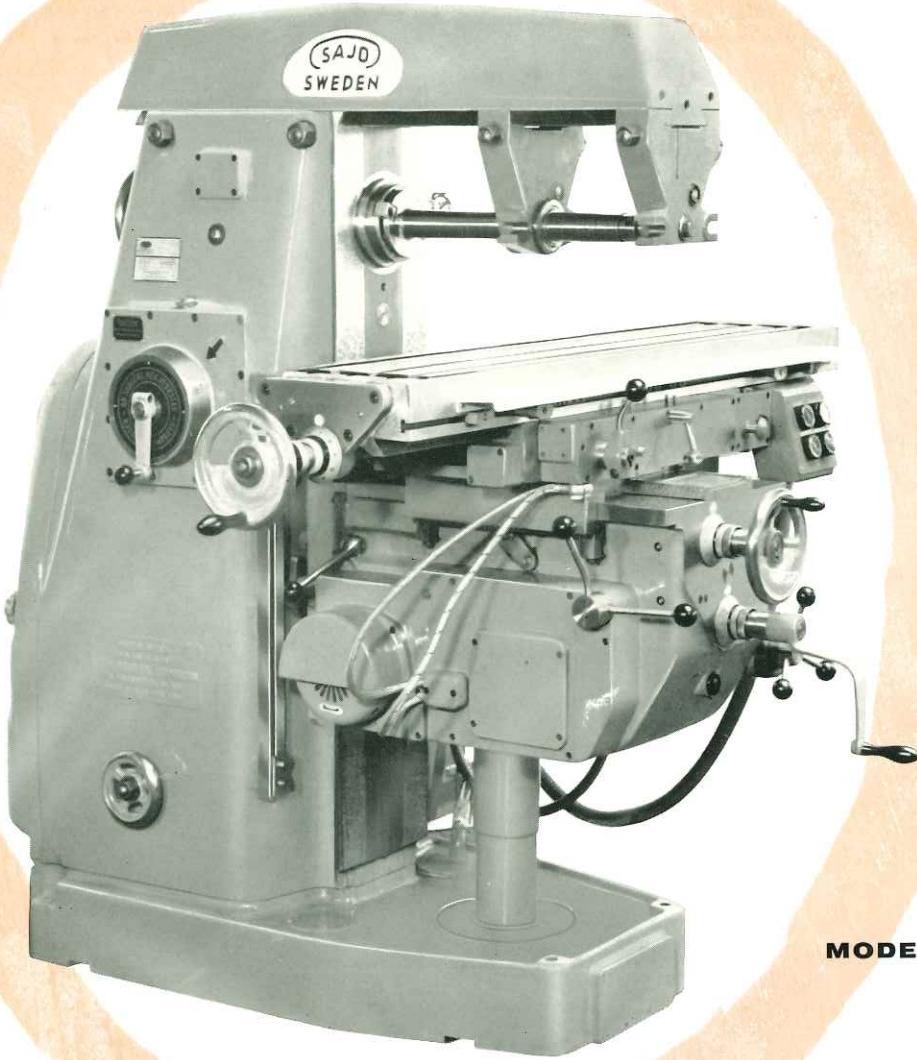
Toolmaker's Overarm
available as optional equipment adds to the versatility of the Model 54 Horizontal Millers.
Equipped with universal milling attachment swivelling in 2 planes, independently powered by 2 HP motor through gear train, speed range 90—1500 RPM.

to **SAJO** for accuracy • stamina

SAJO AUTOMATIC PRODUCTION MILLERS - Model 54

Horizontal Model APF-54

Vertical ,,, AVF-54



MODEL APF-54

Ideal for job lot or production shops.

SAJO Automatic Production Millers, Horizontal or Vertical, offer —

- Selection of automatic cycling providing:
- One-way or reciprocating or continuous table travel
- Power feed alternating with rapid power traverse
- Spindle reverse
- Spindle brake
- Retraction of knee
- all push-button controlled

An added advantage is its quick conversion from automatic to conventional operator-controlled milling by instantaneous disengagement of the automatic cycling arrangement

Also available:

Model 52 SAJO Automatic
Production Miller
Table size 41 $\frac{3}{8}$ "x9 $\frac{1}{4}$ ".
Horsepower: 3 $\frac{1}{2}$ HP.

a · dependability

SPECIFICATIONS

Model	52		54			Production Millers with Automatic Cycling	
	Plain	Universal	Plain	Universal	Vertical	Automatic 52	Automatic 54
Table Size	41 $\frac{3}{8}$ "x9 $\frac{1}{4}$ "		52"x11 $\frac{1}{4}$ "			41 $\frac{3}{8}$ "x9 $\frac{1}{4}$ "	52"x11 $\frac{1}{4}$ "
Table Travel: Longit.	27 $\frac{1}{2}$ "	27 $\frac{1}{2}$ "	33 $\frac{1}{2}$ "	33 $\frac{1}{2}$ "	33 $\frac{1}{2}$ "	27 $\frac{1}{2}$ "	33 $\frac{1}{2}$ "
Transverse	8 $\frac{1}{4}$ "	8 $\frac{1}{4}$ "	12"	12"	12"	8 $\frac{1}{4}$ '	12"
Vertical	18 $\frac{1}{4}$ "	18 $\frac{1}{4}$ "	18"	18"	18"	18"	18"
Spindle Travel (Vertical only)			*3 $\frac{1}{8}$ "			*3 $\frac{1}{8}$ "	
Spindle Speeds (Optional)	40—1800 r.p.m. (30—1350 r.p.m.)		39—1500 r.p.m. (31—1200 r.p.m.)			40—1800 r.p.m. (30—1350 r.p.m.)	39—1500 r.p.m. (31—1200 r.p.m.)
Table Feed in./min.:							
Longit. & Transverse Vertical	15/16"—36" 15/32"—18"		11/16"—25" 11/32"—12 $\frac{1}{2}$ "			{**15/16"—28 $\frac{3}{8}$ " **15/32"—14 $\frac{3}{16}$ "	
Rapid Power Traverse in./min.:						11/16"—25" 11/32"—12 $\frac{1}{2}$ "	
Longit. & Transverse Vertical			118" 59"			181"	118" 59"
Motor: Main Feed	3,5 HP 0,65 HP		7,5 HP 1,5 HP			3,5 HP 0,65 HP	7,5 HP 1,5 HP
Weight: Net lbs. Boxed	2750 3225	2750 3225	4300 4965	4300 4965	4650 5330	2850 3325	4700 5730

* available with power feed, optional

** Longitudinal power feed only. Feed change through pick gears. High or low feed range selected with lever.



SAJO Milling Machines are products of the most advanced engineering skills designed for rugged accurate performance over a long period of years. In keeping with modern practices, ample power is provided for climb milling as well as for conventional milling. Rotating members such as the spindle and gear shafts are mounted in precision anti-friction bearings for sustained accuracy and long life. Resisting the trend to cutting costs by use of less expensive production methods, all SAJO sliding surfaces are precision hand-scraped and properly gibbed. Gears are of heat treated alloy steel. Controls are centralized for convenience and ready accessibility. Overall, SAJO Millers provide the strength, accuracy and modern construction to assure highly satisfactory performance in the most demanding applications.

Illustration shows SP (special precision) staggered double row cylindrical roller bearing used in spindle.

THE HEART OF SAJO MILLERS

- a superb spindle

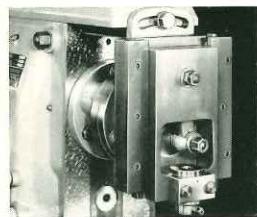
ACCURACY . RUGGEDNESS . LONG LIFE



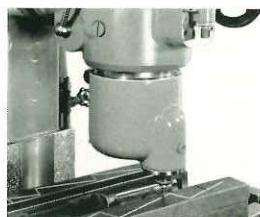
Typical of the modern engineering practices incorporated in the SAJO Miller is the new spindle designed to keep pace with today's trend towards higher production.

By selecting cylindrical roller bearings for radial thrust and ball bearings for axial thrust, these two separate functions are correctly divided with resultant greater efficiency as compared with taper roller bearing spindle construction.

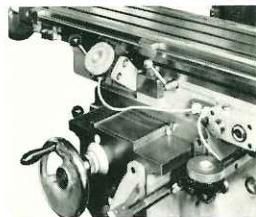
SAJO MILLER ACCESSORIES:



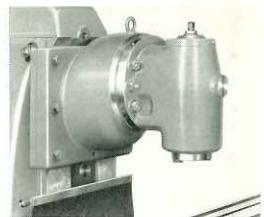
Slotting Attachment



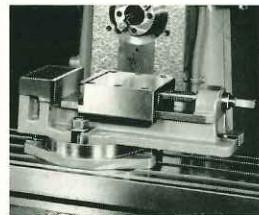
High Speed Attachment



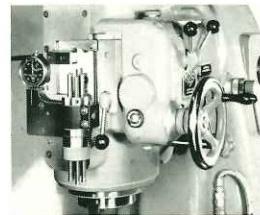
Optical readers



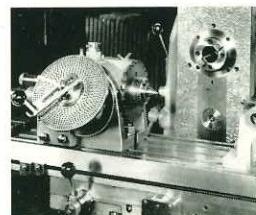
Vertical Head



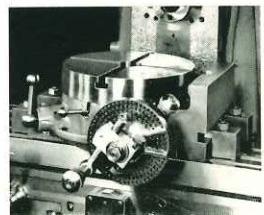
Precision Vice



Turret Type Depth Stop



Dividing Head



Rotary Table

SAJO Workmanship and Built-in Precision Ensure Tolerances to Tenths

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